

# Xiaogang Liu

## List of Publications by Year in descending order

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276  
papers

26,910  
citations

7568

77  
h-index

6654

156  
g-index

285  
all docs

285  
docs citations

285  
times ranked

22330  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilizing triplet excited states for ultralong organic phosphorescence. <i>Nature Materials</i> , 2015, 14, 685-690.	27.5	1,404
2	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018, 561, 88-93.	27.8	1,274
3	Controlling upconversion nanocrystals for emerging applications. <i>Nature Nanotechnology</i> , 2015, 10, 924-936.	31.5	1,221
4	Near-infrared deep brain stimulation via upconversion nanoparticle-mediated optogenetics. <i>Science</i> , 2018, 359, 679-684.	12.6	856
5	Temporal full-colour tuning through non-steady-state upconversion. <i>Nature Nanotechnology</i> , 2015, 10, 237-242.	31.5	834
6	Advances in highly doped upconversion nanoparticles. <i>Nature Communications</i> , 2018, 9, 2415.	12.8	793
7	Molecular afterglow imaging with bright, biodegradable polymer nanoparticles. <i>Nature Biotechnology</i> , 2017, 35, 1102-1110.	17.5	753
8	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. <i>Chemical Reviews</i> , 2017, 117, 4488-4527.	47.7	702
9	Colour-tunable ultra-long organic phosphorescence of a single-component molecular crystal. <i>Nature Photonics</i> , 2019, 13, 406-411.	31.4	579
10	Enhancing multiphoton upconversion through energy clustering at sublattice level. <i>Nature Materials</i> , 2014, 13, 157-162.	27.5	528
11	Preparation of core-shell NaGdF <sub>4</sub> nanoparticles doped with luminescent lanthanide ions to be used as upconversion-based probes. <i>Nature Protocols</i> , 2014, 9, 1634-1644.	12.0	501
12	Chiral-perovskite optoelectronics. <i>Nature Reviews Materials</i> , 2020, 5, 423-439.	48.7	445
13	Black silicon: fabrication methods, properties and solar energy applications. <i>Energy and Environmental Science</i> , 2014, 7, 3223-3263.	30.8	396
14	High-resolution X-ray luminescence extension imaging. <i>Nature</i> , 2021, 590, 410-415.	27.8	378
15	In vivo covalent cross-linking of photon-converted rare-earth nanostructures for tumour localization and theranostics. <i>Nature Communications</i> , 2016, 7, 10432.	12.8	376
16	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. <i>ACS Nano</i> , 2019, 13, 2520-2525.	14.6	346
17	Rare-Earth Doping in Nanostructured Inorganic Materials. <i>Chemical Reviews</i> , 2022, 122, 5519-5603.	47.7	338
18	X-ray-activated persistent luminescence nanomaterials for NIR-II imaging. <i>Nature Nanotechnology</i> , 2021, 16, 1011-1018.	31.5	335

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19	Macroscopic Invisibility Cloak for Visible Light. <i>Physical Review Letters</i> , 2011, 106, 033901.	7.8	334
20	Solid-State Photoinduced Luminescence Switch for Advanced Anticounterfeiting and Super-Resolution Imaging Applications. <i>Journal of the American Chemical Society</i> , 2017, 139, 16036-16039.	13.7	323
21	Photon upconversion nanomaterials. <i>Chemical Society Reviews</i> , 2015, 44, 1299-1301.	38.1	312
22	Instantaneous ballistic velocity of suspended Brownian nanocrystals measured by upconversion nanothermometry. <i>Nature Nanotechnology</i> , 2016, 11, 851-856.	31.5	292
23	Binary temporal upconversion codes of Mn <sup>2+</sup> -activated nanoparticles for multilevel anti-counterfeiting. <i>Nature Communications</i> , 2017, 8, 899.	12.8	290
24	Confining Excitation Energy in Er <sup>3+</sup> -Sensitized Upconversion Nanocrystals through Tm <sup>3+</sup> -Mediated Transient Energy Trapping. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7605-7609.	13.8	259
25	Confining isolated chromophores for highly efficient blue phosphorescence. <i>Nature Materials</i> , 2021, 20, 1539-1544.	27.5	257
26	Aziridiny Fluorophores Demonstrate Bright Fluorescence and Superior Photostability by Effectively Inhibiting Twisted Intramolecular Charge Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 6960-6963.	13.7	251
27	Molecular Origins of Optoelectronic Properties in Coumarin Dyes: Toward Designer Solar Cell and Laser Applications. <i>Journal of Physical Chemistry A</i> , 2012, 116, 727-737.	2.5	244
28	Dynamic Ultralong Organic Phosphorescence by Photoactivation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8425-8431.	13.8	241
29	Organic phosphors with bright triplet excitons for efficient X-ray-excited luminescence. <i>Nature Photonics</i> , 2021, 15, 187-192.	31.4	237
30	Twisted intramolecular charge transfer (TICT) and twists beyond TICT: from mechanisms to rational designs of bright and sensitive fluorophores. <i>Chemical Society Reviews</i> , 2021, 50, 12656-12678.	38.1	221
31	Remote manipulation of upconversion luminescence. <i>Chemical Society Reviews</i> , 2018, 47, 6473-6485.	38.1	210
32	Molecular Design of UV-vis Absorption and Emission Properties in Organic Fluorophores: Toward Larger Bathochromic Shifts, Enhanced Molar Extinction Coefficients, and Greater Stokes Shifts. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16584-16595.	3.1	209
33	Electroluminescence from europium(III) complexes. <i>Coordination Chemistry Reviews</i> , 2015, 293-294, 228-249.	18.8	189
34	Gold and Hairpin DNA Functionalization of Upconversion Nanocrystals for Imaging and In Vivo Drug Delivery. <i>Advanced Materials</i> , 2017, 29, 1700244.	21.0	186
35	Activating Antitumor Immunity and Antimetastatic Effect Through Polydopamine-Encapsulated Core-Shell Upconversion Nanoparticles. <i>Advanced Materials</i> , 2019, 31, e1905825.	21.0	179
36	Real-Time In Vivo Hepatotoxicity Monitoring through Chromophore-Conjugated Photon-Upconverting Nanoprobes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4165-4169.	13.8	178

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37	Continuously Producing Watersteam and Concentrated Brine from Seawater by Hanging Photothermal Fabrics under Sunlight. <i>Advanced Functional Materials</i> , 2019, 29, 1905485.	14.9	178
38	Flexible and Washable CNT-Embedded PAN Nonwoven Fabrics for Solar-Enabled Evaporation and Desalination of Seawater. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 35005-35014.	8.0	175
39	Motion-induced change in emission (MICE) for developing fluorescent probes. <i>Chemical Society Reviews</i> , 2017, 46, 4833-4844.	38.1	172
40	Multicolour synthesis in lanthanide-doped nanocrystals through cation exchange in water. <i>Nature Communications</i> , 2016, 7, 13059.	12.8	164
41	Direct Evidence of a Surface Quenching Effect on Size-Dependent Luminescence of Upconversion Nanoparticles. <i>Angewandte Chemie</i> , 2010, 122, 7618-7622.	2.0	162
42	Manipulating Luminescence of Light Emitters by Photonic Crystals. <i>Advanced Materials</i> , 2018, 30, e1803362.	21.0	158
43	Emerging functional nanomaterials for therapeutics. <i>Journal of Materials Chemistry</i> , 2011, 21, 13107.	6.7	148
44	Achieving Amorphous Ultralong Room Temperature Phosphorescence by Coassembling Planar Small Organic Molecules with Polyvinyl Alcohol. <i>Advanced Functional Materials</i> , 2019, 29, 1807243.	14.9	147
45	Photo-induced Decarboxylative Heck-Type Coupling of Unactivated Aliphatic Acids and Terminal Alkenes in the Absence of Sacrificial Hydrogen Acceptors. <i>Journal of the American Chemical Society</i> , 2018, 140, 16360-16367.	13.7	146
46	Quaternary Piperazine-Substituted Rhodamines with Enhanced Brightness for Super-Resolution Imaging. <i>Journal of the American Chemical Society</i> , 2019, 141, 14491-14495.	13.7	140
47	Lanthanide-doped inorganic nanoparticles turn molecular triplet excitons bright. <i>Nature</i> , 2020, 587, 594-599.	27.8	135
48	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10160-10172.	13.8	131
49	A twisted-intramolecular-charge-transfer (TICT) based ratiometric fluorescent thermometer with a mega-Stokes shift and a positive temperature coefficient. <i>Chemical Communications</i> , 2014, 50, 15811-15814.	4.1	130
50	Remote C-H Activation of Quinolines through Copper-Catalyzed Radical Cross-Coupling. <i>Chemistry - an Asian Journal</i> , 2016, 11, 882-892.	3.3	130
51	Upconversion superburst with sub-200 fs lifetime. <i>Nature Nanotechnology</i> , 2019, 14, 1110-1115.	31.5	130
52	Energy-Transfer Editing in Lanthanide-Activated Upconversion Nanocrystals: A Toolbox for Emerging Applications. <i>ACS Central Science</i> , 2019, 5, 29-42.	11.3	127
53	Rewritable Optical Memory Through High-Registry Orthogonal Upconversion. <i>Advanced Materials</i> , 2018, 30, e1801726.	21.0	124
54	Lanthanide-Activated Nanoparticles: A Toolbox for Bioimaging, Therapeutics, and Neuromodulation. <i>Accounts of Chemical Research</i> , 2020, 53, 2692-2704.	15.6	123

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55	Multishelled Ni <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> Hollow Microspheres Derived from Bimetal-Organic Frameworks as Anode Materials for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2017, 13, 1604270.	10.0	120
56	Expanding the Toolbox of Upconversion Nanoparticles for In Vivo Optogenetics and Neuromodulation. <i>Advanced Materials</i> , 2019, 31, e1803474.	21.0	118
57	Photoinduced site-selective alkenylation of alkanes and aldehydes with aryl alkenes. <i>Nature Communications</i> , 2020, 11, 1956.	12.8	116
58	A General Descriptor "E" Enables the Quantitative Development of Luminescent Materials Based on Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 6777-6785.	13.7	115
59	Upconversion amplification through dielectric superlensing modulation. <i>Nature Communications</i> , 2019, 10, 1391.	12.8	114
60	Tunable Resonator-Converted Emission (TRUE) Color Printing and Applications in Optical Security. <i>Advanced Materials</i> , 2019, 31, e1807900.	21.0	111
61	Quantitatively Mapping Cellular Viscosity with Detailed Organelle Information via a Designed PET Fluorescent Probe. <i>Scientific Reports</i> , 2014, 4, 5418.	3.3	109
62	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2017, 29, 1602432.	21.0	106
63	Enabling Förster Resonance Energy Transfer from Large Nanocrystals through Energy Migration. <i>Journal of the American Chemical Society</i> , 2016, 138, 15972-15979.	13.7	102
64	AlEgen-coupled upconversion nanoparticles eradicate solid tumors through dual-mode ROS activation. <i>Science Advances</i> , 2020, 6, eabb2712.	10.3	100
65	Solvent Effects on the UV-vis Absorption and Emission of Optoelectronic Coumarins: a Comparison of Three Empirical Solvatochromic Models. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14731-14741.	3.1	98
66	Stimulation of neural stem cell differentiation by circularly polarized light transduced by chiral nanoassemblies. <i>Nature Biomedical Engineering</i> , 2021, 5, 103-113.	22.5	98
67	A Sequential Dual-Lock Strategy for Photoactivatable Chemiluminescent Probes Enabling Bright Duplex Optical Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9059-9066.	13.8	92
68	Intracellular Adenosine Triphosphate Deprivation through Lanthanide-Doped Nanoparticles. <i>Journal of the American Chemical Society</i> , 2015, 137, 6550-6558.	13.7	88
69	Stimulus-Responsive Memristive Materials for Artificial Synapses and Neuromorphic Computing. <i>Advanced Materials</i> , 2021, 33, e2006469.	21.0	88
70	Nanoporous LiMn <sub>2</sub> O <sub>4</sub> nanosheets with exposed {111} facets as cathodes for highly reversible lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 20952.	6.7	87
71	Relating Electron Donor and Carboxylic Acid Anchoring Substitution Effects in Azo Dyes to Dye-Sensitized Solar Cell Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1440-1452.	6.7	83
72	Unraveling Epitaxial Habits in the NaLn <sub>4</sub> System for Color Multiplexing at the Single-Particle Level. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5718-5722.	13.8	83

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73	Spectral converters for photovoltaics â€“ Whatâ€™s ahead. <i>Materials Today</i> , 2020, 33, 105-121.	14.2	83
74	Polarization-sensitive optoionic membranes from chiral plasmonic nanoparticles. <i>Nature Nanotechnology</i> , 2022, 17, 408-416.	31.5	83
75	Thiazole derivative-modified upconversion nanoparticles for Hg <sup>2+</sup> detection in living cells. <i>Nanoscale</i> , 2016, 8, 276-282.	5.6	82
76	Crystal Multi-Conformational Control Through Deformable Carbon-Sulfur Bond for Singlet-Triplet Emissive Tuning. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4328-4333.	13.8	82
77	Energy Flux Manipulation in Upconversion Nanosystems. <i>Accounts of Chemical Research</i> , 2019, 52, 228-236.	15.6	82
78	Molecular Mechanism of Viscosity Sensitivity in BODIPY Rotors and Application to Motion-Based Fluorescent Sensors. <i>ACS Sensors</i> , 2020, 5, 731-739.	7.8	80
79	An Approach to Developing Cyanines with Simultaneous Intersystem Crossing Enhancement and Excited-State Lifetime Elongation for Photodynamic Antitumor Metastasis. <i>Journal of the American Chemical Society</i> , 2021, 143, 12345-12354.	13.7	80
80	Development of a Highly Selective, Sensitive, and Fast Response Upconversion Luminescent Platform for Hydrogen Sulfide Detection. <i>Advanced Functional Materials</i> , 2016, 26, 191-199.	14.9	79
81	In Vivo Tumor Visualization through MRI Off-On Switching of NaGdF <sub>4</sub> -CaCO <sub>3</sub> Nanoconjugates. <i>Advanced Materials</i> , 2019, 31, e1901851.	21.0	79
82	A Photoexcitation-Induced Twisted Intramolecular Charge Shuttle. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7073-7077.	13.8	79
83	Quantum Dots for Photovoltaics: A Tale of Two Materials. <i>Advanced Energy Materials</i> , 2021, 11, 2100354.	19.5	77
84	Anomalous upconversion amplification induced by surface reconstruction in lanthanide sublattices. <i>Nature Photonics</i> , 2021, 15, 732-737.	31.4	77
85	De novo strategy with engineering anti-Kasha/Kasha fluorophores enables reliable ratiometric quantification of biomolecules. <i>Nature Communications</i> , 2020, 11, 793.	12.8	74
86	Unraveling Epitaxial Habits in the NaLnF <sub>4</sub> System for Color Multiplexing at the Single-Particle Level. <i>Angewandte Chemie</i> , 2016, 128, 5812-5816.	2.0	72
87	Confining the Nucleation of Pt to In Situ Form (Pt-Enriched Cage)@CeO <sub>2</sub> Core@Shell Nanostructure as Excellent Catalysts for Hydrogenation Reactions. <i>Advanced Materials</i> , 2017, 29, 1700495.	21.0	72
88	A H-bond strategy to develop acid-resistant photoswitchable rhodamine spirolactams for super-resolution single-molecule localization microscopy. <i>Chemical Science</i> , 2019, 10, 4914-4922.	7.4	72
89	Controlling Metallophilic Interactions in Chiral Gold(I) Double Salts towards Excitation Wavelength-Tunable Circularly Polarized Luminescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6915-6922.	13.8	71
90	Optical Torques on Upconverting Particles for Intracellular Microrheometry. <i>Nano Letters</i> , 2016, 16, 8005-8014.	9.1	70

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91	A concise, efficient synthesis of sugar-based benzothiazoles through chemoselective intramolecular C–S coupling. <i>Chemical Science</i> , 2012, 3, 2388.	7.4	67
92	Zinc Oxide Nano- and Microfabrication from Coordination Polymer Templates. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3018-3021.	13.8	66
93	Interactions between molecules and perovskites in halide perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 175, 1-19.	6.2	66
94	Nonlinear spectral and lifetime management in upconversion nanoparticles by controlling energy distribution. <i>Nanoscale</i> , 2016, 8, 6666-6673.	5.6	65
95	Energy Migration Upconversion in Manganese(II)-Doped Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13312-13317.	13.8	64
96	Stable Super-Resolution Imaging of Lipid Droplet Dynamics through a Buffer Strategy with a Hydrogen-Bond Sensitive Fluorogenic Probe. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25104-25113.	13.8	60
97	Rational Development of Near-Infrared Fluorophores with Large Stokes Shifts, Bright One-Photon, and Two-Photon Emissions for Bioimaging and Biosensing Applications. <i>Chemistry - A European Journal</i> , 2017, 23, 8736-8740.	3.3	58
98	A Unified Push–Pull Model for Understanding the Ring-Opening Mechanism of Rhodamine Dyes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3793-3801.	3.1	58
99	Static Magnetic Field Stimulation Enhances Oligodendrocyte Differentiation and Secretion of Neurotrophic Factors. <i>Scientific Reports</i> , 2017, 7, 6743.	3.3	57
100	Investigating the Hybrid Structure Effect of CeO <sub>2</sub> -Encapsulated Au Nanostructures on the Transfer Coupling of Nitrobenzene. <i>Advanced Materials</i> , 2018, 30, 1704416.	21.0	57
101	Upconversion Nanoparticle Powered Microneedle Patches for Transdermal Delivery of siRNA. <i>Advanced Healthcare Materials</i> , 2020, 9, e1900635.	7.6	57
102	Bio-orthogonal Red and Far-Red Fluorogenic Probes for Wash-Free Live-Cell and Super-resolution Microscopy. <i>ACS Central Science</i> , 2021, 7, 1561-1571.	11.3	57
103	Confining Excitation Energy in Er <sup>3+</sup> -Sensitized Upconversion Nanocrystals through Tm <sup>3+</sup> -Mediated Transient Energy Trapping. <i>Angewandte Chemie</i> , 2017, 129, 7713-7717.	2.0	56
104	A nanotheranostic agent based on Nd <sup>3+</sup> -doped YVO <sub>4</sub> with blood-brain-barrier permeability for NIR-II fluorescence imaging/magnetic resonance imaging and boosted sonodynamic therapy of orthotopic glioma. <i>Light: Science and Applications</i> , 2022, 11, 116.	16.6	56
105	Substantial Intramolecular Charge Transfer Induces Long Emission Wavelengths and Mega Stokes Shifts in 6-Aminocoumarins. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13274-13279.	3.1	55
106	Self-assembly of colloidal inorganic nanocrystals: nanoscale forces, emergent properties and applications. <i>Chemical Society Reviews</i> , 2021, 50, 2074-2101.	38.1	54
107	Aggregation-induced emission or aggregation-caused quenching? Impact of covalent bridge between tetraphenylethene and naphthalimide. <i>Chinese Chemical Letters</i> , 2021, 32, 1790-1794.	9.0	54
108	A Highly Reversible Mechanochromic Difluorobenzothiadiazole Dye with Near-Infrared Emission. <i>Chemistry - A European Journal</i> , 2018, 24, 3671-3676.	3.3	52



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109	Visualization of Intra-neuronal Motor Protein Transport through Upconversion Microscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9262-9268.	13.8	52
110	Giant Enhancement of Second Harmonic Generation Accompanied by the Structural Transformation of 7-fold to 8-fold Interpenetrated Metal-Organic Frameworks (MOFs). <i>Angewandte Chemie - International Edition</i> , 2020, 59, 833-838.	13.8	52
111	Surface Plasmon-Photon Coupling in Lanthanide-Doped Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1520-1541.	4.6	52
112	Tunable lifetime nanocrystals. <i>Nature Photonics</i> , 2014, 8, 10-12.	31.4	51
113	Fluorescence upconversion enables light-up sensing of N-acetyltransferases and nerve agents. <i>Nature Communications</i> , 2021, 12, 3869.	12.8	51
114	Descriptor $\Gamma^G$ Enables the Quantitative Design of Spontaneously Blinking Rhodamines for Live-Cell Super-Resolution Imaging. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20215-20223.	13.8	50
115	Continuous-wave near-infrared stimulated-emission depletion microscopy using downshifting lanthanide nanoparticles. <i>Nature Nanotechnology</i> , 2021, 16, 975-980.	31.5	50
116	An ESIPT-induced NIR fluorescent probe to visualize mitochondrial sulfur dioxide during oxidative stress <i>in vivo</i> . <i>Chemical Communications</i> , 2021, 57, 655-658.	4.1	49
117	Improving Cancer Immunotherapy Outcomes Using Biomaterials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17332-17343.	13.8	48
118	Multiphoton Upconversion Enhanced by Deep Subwavelength Near-Field Confinement. <i>Nano Letters</i> , 2021, 21, 3044-3051.	9.1	48
119	Tunable Upconversion Emissions from Lanthanide-doped Monodisperse $\text{F}_2\text{-NaYF}_4$ Nanoparticles. <i>Spectroscopy Letters</i> , 2010, 43, 400-405.	1.0	47
120	Dynamic Ultralong Organic Phosphorescence by Photoactivation. <i>Angewandte Chemie</i> , 2018, 130, 8561-8567.	2.0	47
121	A dual-site modulated FRET-based two-photon ratiometric fluorescent probe for tracking lysosomal pH changes in living cells, tissues and zebrafish. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 79-86.	7.8	47
122	A Review of Functional Electrical Stimulation Treatment in Spinal Cord Injury. <i>NeuroMolecular Medicine</i> , 2020, 22, 447-463.	3.4	47
123	Ladder-like energy-relaying exciplex enables 100% internal quantum efficiency of white TADF-based diodes in a single emissive layer. <i>Nature Communications</i> , 2021, 12, 3640.	12.8	46
124	Emerging strategies in developing multifunctional nanomaterials for cancer nanotheranostics. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113907.	13.7	46
125	High-Specificity <i>In Vivo</i> Tumor Imaging Using Bioorthogonal NIR-IR Nanoparticles. <i>Advanced Materials</i> , 2021, 33, e2102950.	21.0	46
126	Molecular Origins of Dye Aggregation and Complex Formation Effects in Coumarin 343. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14723-14730.	3.1	43



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127	Organic Semiconductor Single Crystals for X-ray Imaging. <i>Advanced Materials</i> , 2021, 33, e2104749.	21.0	43
128	Transcriptome Analysis Reveals Neuroprotective aspects of Human Reactive Astrocytes induced by Interleukin 1 $\beta$ . <i>Scientific Reports</i> , 2017, 7, 13988.	3.3	41
129	Spin-Orbit Torque-Induced Domain Nucleation for Neuromorphic Computing. <i>Advanced Materials</i> , 2021, 33, e2103672.	21.0	41
130	Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. <i>Advanced Materials</i> , 2020, 32, e1905578.	21.0	39
131	Subwavelength imaging through ion-beam-induced upconversion. <i>Nature Communications</i> , 2015, 6, 8832.	12.8	38
132	Hedgehog-Like Upconversion Crystals: Controlled Growth and Molecular Sensing at Single-Particle Level. <i>Advanced Materials</i> , 2017, 29, 1702315.	21.0	38
133	Photon upconversion through triplet exciton-mediated energy relay. <i>Nature Communications</i> , 2021, 12, 3704.	12.8	38
134	First-Principles Study of Molecular Adsorption on Lead Iodide Perovskite Surface: A Case Study of Halogen Bond Passivation for Solar Cell Application. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23536-23541.	3.1	37
135	Nanotunnels within Poly(3,4-ethylenedioxythiophene)-Carbon Nanotube Composite for Highly Sensitive Neural Interfacing. <i>ACS Nano</i> , 2020, 14, 8059-8073.	14.6	37
136	Molecular Origins of Optoelectronic Properties in Coumarins 343, 314T, 445, and 522B. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14130-14141.	3.1	36
137	Rapid Identification of Bacteria by Membrane-Responsive Aggregation of a Pyrene Derivative. <i>ACS Sensors</i> , 2019, 4, 281-285.	7.8	36
138	Quantitative Design of Bright Fluorophores and AIEgens by the Accurate Prediction of Twisted Intramolecular Charge Transfer (TICT). <i>Angewandte Chemie</i> , 2020, 132, 10246-10258.	2.0	36
139	Dynamic upconversion multicolour editing enabled by molecule-assisted opto-electrochemical modulation. <i>Nature Communications</i> , 2021, 12, 2022.	12.8	36
140	Resonant Scattering Manipulation of Dielectric Nanoparticles. <i>Advanced Optical Materials</i> , 2021, 9, 2100112.	7.3	36
141	Force-Induced Near-Infrared Chromism of Mechanophore-Linked Polymers. <i>Journal of the American Chemical Society</i> , 2021, 143, 17337-17343.	13.7	36
142	Tuning Solvatochromism of Azo Dyes with Intramolecular Hydrogen Bonding in Solution and on Titanium Dioxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26316-26323.	3.1	35
143	Steel-based electrocatalysts for efficient and durable oxygen evolution in acidic media. <i>Catalysis Science and Technology</i> , 2018, 8, 2104-2116.	4.1	35
144	A General Method to Develop Highly Environmentally Sensitive Fluorescent Probes and AIEgens. <i>Advanced Science</i> , 2022, 9, e2104609.	11.2	35

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145	Designing Upconversion Nanocrystals Capable of 745â€¦nm Sensitization and 803â€¦nm Emission for Deepâ€¦Tissue Imaging. <i>Chemistry - A European Journal</i> , 2016, 22, 10801-10807.	3.3	34
146	Nanocrystals feel the heat. <i>Nature Photonics</i> , 2018, 12, 124-125.	31.4	34
147	Visualization of Intraâ€¦neuronal Motor Protein Transport through Upconversion Microscopy. <i>Angewandte Chemie</i> , 2019, 131, 9363-9369.	2.0	34
148	Rhodamine-naphthalimide demonstrated a distinct aggregation-induced emission mechanism: elimination of dark-states <i>via</i> dimer interactions (EDDI). <i>Chemical Communications</i> , 2019, 55, 1446-1449.	4.1	32
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